

22" WIDE LCD MONITOR

USER'S GUIDE BP2219W



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Recycling Place

EUROPE

When disposing of MAG Branded Monitors in Europe, please contact one of the following three locations to make arrangements for recycling.

Proview International (UK) Limited

30 The Avenue, Watford, Hertfordshire

WD17 4AE United Kingdom

Timothy Lo

Tel: +44-1923-248-111 Fax: +44-923-248-222 Email: tim.lo@proview.co.uk

■ PGL Europe B.V. (Proview Group Limited Rotterdam)

Satijnbloem 37,

3068 JP Rotterdam Hollande David Hsieh

Tel: +31-10-238-1090 Fax: +31-10-238-1091 Email: david@proview-group.nl

Xoal byba

Raketstraat 100-B1130

Bruessels Mr. Leo Starckx Tel: +32-2-702-6011 Fax: +32-2-725-2513

Email: rma@proview-repair.com leo.starckx@proview-repair.com

ASIA

When disposing of MAG Branded Monitors in Asia, please contact the following location to make arrangements for recycling.

Proview Technology (ShenZhen) Co., Ltd.

North Block 21, 23# Shatoukok Free Trade Zone, ShenZhen, China.

Mr. Dennis Chang Tel: +86-755-2526-1512 Fax: +86-755-2526-1565

Email:recycling@proview.com.cn

AMERICA

When disposing of MAG Branded Monitors in America, please call the following location to make arrangements for recycling.

Proview Technology, Inc. (U.S.A.)

7373 Hunt Avenue, Garden Grove, CA 92841 U.S.A.

Patrick Yen

Tel:+714-799-3865 Fax:+714-379-6290 Email:pyen@proview.net

"THIS DISPLAY UNIT IS AN ELECTRIC DEVICE WHICH MAY CONTAIN HAZARDOUS MATERIALS AND COMPONENTS, AND WHICH MUST BE DISPOSED OF AT END OF LIFE ACCORDING TO THE PROPER PROCEDURE"

CE Marking Declaration Of Conformity

This LCD monitor complies with the requirements of the EC Directive 89/336/EEC "EMC Directive" and 73/23/EEC "Low Voltage Directive" as amended by Directive 93/68/EEC.

The electro-magnetic susceptibility has been chosen at a level that gives correct operation in residential areas, business and light industrial premises and small-scale enterprises, inside as well as outside of the buildings.

All places of operation are characterized by their connection to the public low voltage power supply system.

Federal Communications Commission (FCC) Statement



This equipment has been tested and found to comply with the limits of a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. Reorient/Relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit which is different from what the receiver is connected to.
- 4. Consult the dealer or an experienced radio/TV technician for help.



CAUTION:

Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user authority to operate the equipment.

Important Safety Instructions

To prevent any injuries, the following safety precautions should be observed in the installation, use, servicing and maintenance of this equipment.

Before operating this equipment, please read this manual completely, and keep it nearby for future reference.

	Important Safety Instructions
	This symbol indicates caution points.
\Diamond	This symbol indicates actions that should not be done.
1	This symbol indicates actions that must be performed.
0	Do not place the equipment on any uneven or unstable carts, stands, tables, shelves etc. The equipment may fall, causing serious injury to children or adults and serious damage to the equipment itself.
	Use only a cart or stand recommended by the manufacturer. This equipment and recommended cart or stand should be handled with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart/stand to overturn.
!	Do not disable the 3-wire grounding type plug. The grounding pin on the 3-prong plug is an important feature. Removing the grounding pin will increase the risk of damaging the equipment. If you can not fit the plug into the electrical outlet, contact an electrician to install a grounding outlet.
	Always operate this equipment from the type of power source indicated on the rear of the serial/model plate.
1	 Never overload wall outlets and extensions. Use and handle the power cord with care.
	Do not place any heavy objects on the AC power cord.
	Do not pull the AC power cord. Do not handle the AC power cord with a wet hand.

Do not touch the power cord and antenna cable during lightning.



- Remove the plug from the wall outlet if the equipment will not be used for a long period of time.
- Do not place, use or handle this equipment near water.
- Never expose the equipment to liquid, rain, or moisture.
 Seek qualified service if any of the above is spilled into the equipment.
- · Do not attempt to service the equipment yourself.
- Opening and removing the covers may expose you to dangerous voltage or other hazards and may void your warranty. Refer service to qualified personnel.
- Always remove the power cord from the outlet before cleaning the equipment.
- Never use liquid or aerosol cleaners on the equipment. Clean only with a soft dry cloth.
- Do not expose the equipment to extreme temperature or to direct sunlight, as the equipment may heat up and suffer damage.
- Do not install the equipment near any heat sources such as radiators, heat registers, stoves, or any other apparatus that might produce heat.
- Do not block any ventilating openings. Leave an open space around the equipment.



 Never place the equipment :on a bed, sofa, rug, or any other similar surfaces; too close to drapes/curtains/walls, in a bookcase, built-in cabinet, or any other similar places that may cause poor ventilation.

(continued on next page)



- If any of the following conditions occur, unplug the power cord from the outlet and request service from qualified personnel.
 - a. The power cord or plug is damaged.
 - b. Liquid is spilled into the product.
 - c. An object falls onto or into the product.
 - d. The product has been dropped or damaged.
 - e. The product's display is abnormal.



DISPOSAL OF WASTE ELECTRONIC EQUIPMENT BY PRIVATE HOUSEHOLDS WITHIN THE EUROPEAN UNION

This sign indicates that this product may not be disposed of with your regular household waste. The recycling and separate collection of such products is your responsibility. Please drop off the above-mentioned waste at a designated place for recycling waste electrical and electronic equipment. If you do not know where to drop off your waste equipment for recycling, please contact your local city office or household waste collection service.

Chapter 1

Introducing the Display

Features



WIDE-SCREEN VISION

A wide screen offer more space than 4:3 or 5:4 monitors. You can have more content viewed without scrolling windows all the time.



FAST RESPONSE TIME

The faster response time is good to video or animation to reduce residual image effect. While playing 3D games or watch video, it can enhance fluent video streaming.



SUPERIOR BRIGHTNESS & CONTRAST

High brightness can make images vivid and higher contrast results in sharper difference between black and white colors. This feature is able to make the images displayed true to nature and colors saturated with the gradation.



PLUG-AND-PLAY CAPABILITY

Easy trouble-free configuration and set-up.



MULTIPLE VIDEO SIGNAL INPUTS

This multiple signal inputs design allows connection of two more PCs with just one simple switch. This is especially convenient when you simultaneously share one monitor with two PCs (e.g. a desktop and a notebook).



MULTIMEDIA ENHANCED SPEAKERS

True multimedia sound without using valuable desktop space. The LCD monitor features two built-in 2w stereo speakers integrated into the stylish design.



INTEGRATED POWER DESIGN

The power part is integrated into the whole design and there's no more external power adapter to occupy your desktop space.



HDCP has been implemented across DVI interface. The HDCP specification provides a cost-effective and transparent method for receiving the highest qualitydigital entertainment content from HDMI compliant video sources. (Specified for HDCP models)

Package Contents

Make sure all of the following contents are included in the box. If any items are missing, please return this product to the original place of purchase.

☑ LCD Monitor



☑ CD-ROM(Driver/Manual)



☑ D-SUB Cable



☑ Power Cord*



☑ Audio Cable



Quick Guide



☑ Warranty Card



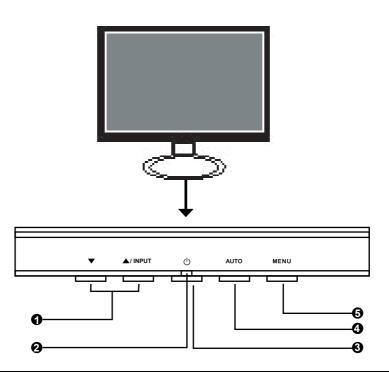
* Power cord specification: H05 VV-F 3G 0.75mm²



CAUTION:

Be sure to save original box and all packing material for future transport of monitor.

Front View and Controls



ITEM **DESCRIPTION** In OSD mode, press the ▲ ▼ buttons to move the selection highlight to the next menu item counterclockwise or clockwise, respectively. Adjusts the speaker volume up and down. 2 LED The LED light indicates when the LCD monitor is activated (blue light indicates power on and amber light indicates power saving). Turns the LCD monitor on and off. AUTO Press to automatically adjust the display settings to optimize performance based on the D-SUB signal. MENU Press once to display the OSD (On Screen Display). And press to activate the items you highlight.

Chapter 2

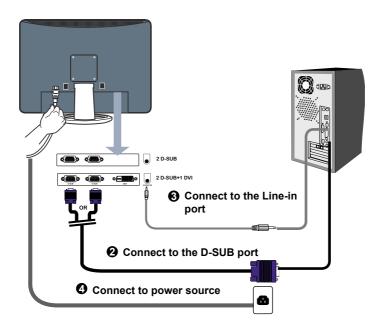
Installing the Display

Refer to the owner's manual of the computer for connections. In the process of connecting external equipment, do not connect any AC power cords to wall outlets until all other connections are completed.

Connecting Your LCD Monitor to a Computer

Method 1: Analog (D-SUB) Connection

- 1 Turn off the computer and unplug the power cable.
- 2 Connect the signal cable to the VGA port on the back of the computer.
- **3** Connect the audio cable to the line-in port on the back of the computer.
- **4** Connect the power cord to wall outlet and LCD monitor.
- Press the button, located on the right side of the main unit to turn the monitor on, then turn the computer on. If the monitor displays an image, the monitor is successfully installed. If no image is displayed, check all connections.



NOTE:

The button is used for switching the LCD monitor on and off, it does not disconnect the device from the main voltage. To completely disconnect the main voltage, please remove the power plug from the socket.

NOTE:

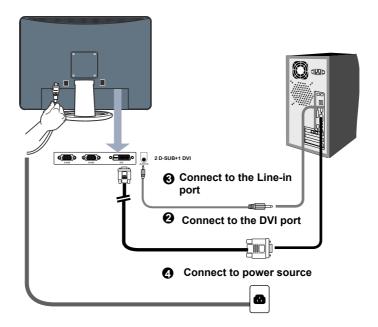
The LED indicator is blue when the monitor operates normally and will turn to amber when in power saving mode. When the monitor is off, the LED turns dark.

NOTE:

Unplug the monitor before installation to avoid electric shock or damage.

Method 2: Digital (DVI) Connection

- 1 Turn off the computer and unplug the power cable.
- Connect the signal cable (DVI) to the DVI port on the back of the computer.
- 3 Connect the audio cable to the line-in port on the back of the computer.
- **4** Connect the power cord to wall outlet and LCD monitor.
- Press the button, located on the bottom side of the main unit to turn the monitor on, then turn the computer on. If the monitor displays an image, the monitor is successfully installed. If no image is displayed, check all connections.



(!) !

NOTE:

Your LCD monitor may come with 2 D-Sub connectors or 2 D-Sub/1 DVI connectors.

HDCP has been implemented across DVI interface. The HDCP specification provides a cost-effective and transparent method for receiving the highest quality digital enterainment content HDMI compliant video sources. (Specified for HDCP models)

If the screen displays "out of range", please follow the instructions below to set up:

- Press the MENU button to display the OSD.
- Press the ▲ or ▼ button to highlight the ➡ (INPUT SELECT) icon, then press the MENU button. The OSD displays:



Press the ▲ or ▼ button to select DIGITAL INPUT.



HOW TO GET SUPPORT FOR YOUR WIDE SCREEN

The wide-screen display enables you to view your content in a brand new way. The next generation of computing environments and game consoles are starting to support wide-screen resolutions.

- Multitask view applications side by side and reduce toggling between them.
- Enrich view DVD films in their native wide format for an enhanced multimedia experience.
- Experience enjoy gaming action at higher wide-screen resolution.

However, to enable wide resolution (WSXGA+, 1680x1050), you need to select the correct setting in your Control Panel>Display>Settings dialog box in Windows®.

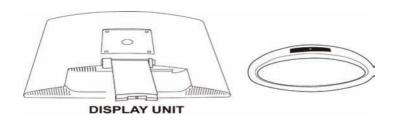
Please note, some video cards and PCs with integrated video may not support the wide-screen resolutions. You may have to update the video chip/card driver or even purchase a new video card to utilize the advantages of the wide-screen.

For your PC, refer to the available drivers and downloads from the PC manufacturer's web site. For upgraded video card, refer to the video card manufacturer's web site: nVIDIA® (www.nvidia.com), ATI® (www.ati.com), S3® (www.s3graphics.com), Intel® (www.intel.com), and so on.

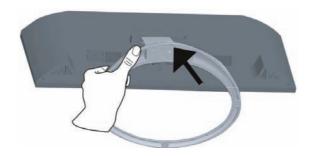
Installing Your LCD Monitor

Follow the instructions below to set up and install the monitor.

The package contains:
 Display unit
 Stand



2 Cover an even stable surface with a soft cloth. Place the unit face-down on the cloth. Fit the stand onto the bottom of the display unit as shown, then push until the two latches snap into their sockets.



Chapter 3

Using the OSD(On Screen Display)Menu

Using the OSD Menu

To create the best picture, your monitor has been preset at the factory with the Preset Mode Timing shown on page 21.

The OSD (On Screen Display) Menu allows the user to adjust various settings and options by following the steps below.

 Press the MENU button to display the OSD. The OSD main menu provides an overview of the selection of controls available.



- Press the ▲ or ▼ button to highlight the desired icon. Then, press the **MENU** button to activate the highlighted icon
- Press the ▲ or ▼ button to change the value of the selected item.
- 4 Select the **EXIT** icon to exit the OSD.
- Repeat steps 1 through 4 to make further adjustments. All changes are stored immediately.

The OSD(On Screen Display) Options

The OSD (On Screen Display) menu includes the following options:



BRIGHTNESS

Controls the overall brightness.

O CONTRAST

Controls the difference between the brightest and darkest regions of the picture.

♯ H. POSITION

Adjusts the position of the picture left and right in the window.

U. POSITION

Adjusts the position of the picture up and down in the window.

Adjusts the width of the picture.

®™ PHASE

Adjusts signal phase, which can improve focus clarity and image stability.

® COLOR

Allows selection of the general color tint: Select User Mode, WARM, or COOL.



€ Select User Mode

Allows the user to adjust red, green and blue color component levels independently.

COOL

Inclines colors toward the blue end of the spectrum. Fixes the red, green and blue component levels at factory settings; they cannot be independently adjusted.

WARM

Inclines colors toward the red end of the spectrum. Fixes the red, green and blue component levels at factory settings; they cannot be independently adjusted.

厨⁺EXIT

Exits the OSD menu.

INPUT SELECT

Allows selection of ANALOG INPUT or DIGITAL INPUT depending on the type of input signal currently in use.

+R+ RESET

Restores all options to the factory settings.



Controls which language is used on all the on-screen menus.

Changes the position of the OSD.

□ H. POSITION

Moves the OSD left and right in the window.

V. POSITION

Moves the OSD up and down in the window.

E EXIT

Exits the OSD menu.

歐 EXIT

Exits the OSD.

Chapter 4

Technical Information

Preset Mode Timing Chart

The screen image has been optimized during manufacture for the display modes listed below.

Video signal: (IBM PC/AT)

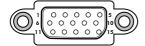
Dot X Line	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720 x 400	31.47	70.00
640 x 480	31.47	60.00
	37.86	72.80
	37.50	75.00
800 x 600	35.16	56.25
	37.88	60.30
	48.08	72.20
	46.87	75.00
1024 x 768	48.36	60.00
	56.48	70.10
	60.02	75.00
1280 x 1024	63.98	60
	79.98	75
1440 x 900	55.47	59.90
	70.64	74.98
1680 x 1050	64.67	60

DVI Connector PIN Assignment



PIN	DESCRIPTION	PIN	DESCRIPTION
1	TMDS Data 2-	15	GND
2	TMDS Data 2+	16	Hot Plug Detect
3	TMDS Data 2/4 shield	17	TMDS Data 0-
4		18	TMDS Data 0+
5		19	TMDS Data 0/5 shield
6	DDC Clock	20	
7	DDC Data	21	
8	Analog Vertical Sync	22	Clock shield
9	TMDS Data 1-	23	Clock +
10	TMDS Data 1+	24	Clock -
11	TMDS Data 1/3 shield	C1	Analog red
12		C2	Analog green
13		C3	Analog blue
14	+5V Power	C4	Analog

D-SUB Connector PIN Assignment



PIN	DESCRIPTION	
1	Red	
2	Green	
3	Blue	
4	Ground	
5	Self Test	
6	Red Ground	
7	Green Ground	
8	Blue Ground	
9	5 VDC	
10	Ground	
11	Ground	
12	SDA (FOR DDC)	
13	H. Sync	
14	V. Sync	
15	SCL (FOR DDC)	

Plug and Play

This monitor conforms to the VESA DDC (Display Data Channel) standard, which means that when it is used with a DDC compatible video card, the monitor is easier to set up. With VESA DDC 1/2B, when the monitor is turned on, it will automatically notify a windows 9X/2000/XP host computer of its scanning frequencies, capabilities and characteristics. Windows 9X/2000/XP will automatically recognize the presence of the monitor and select the appropriate display resolution.

Visual Inspection

Permanently unlit or lit pixels

The standard of production techniques today cannot guarantee an absolutely fault free LCD display. A few isolated permanently lit or unlit pixels may be present. The maximum permitted number of pixel faults is stipulated in the stringent international standard ISO 13406-2 (Class II).

Troubleshooting

Before consulting service personnel, check the following chart for a possible cause and solution to the trouble you are experiencing.

Monitor will not turn on

· Make sure the power cord is plugged in.

No picture

- · Make sure the power cord is plugged in.
- Check the signal cable connecting the LCD monitor and the computer (refer to page 12-15).
- Press the (1) button on the front panel of the monitor.

3 Poor picture or abnormal picture

- Check the signal cable connecting the LCD monitor and the computer (refer to page 12-15).
- Press the MENU button to adjust the Brightness Contrast option in the OSD.
- Adjust the Color Select option in the OSD.
- Press the AUTO button on the front panel of the monitor, to automatically adjust the display mode.

4 Out of range message appears

- Press the MENU button. Highlight the INPUT SELECT icon, then press
 the MENU button. Press the ▲ or ▼ button to select DIGITAL
 INPUT (refer to page 15).
- If using Windows 9X/2000/XP, wait a few seconds; once Windows
 detects the problem, a dialog will appear allowing you to manually set
 up the video mode according to the preset mode timing chart
 (refer to page 21).

Specifications

MODEL		BP2219W	
LCD Panel Panel Size		22"w TFT LCD	
	Brightness	300	
	Contrast Ratio	700:1	
	Dot Pitch	0.282mm x 0.282mm	
Build-in Speaker		Yes	
Max. Resolution		1680x1050	
Input Connector		D-SUB x 2/ DVI x 1/PC AUDIO or D-SUB x 2/PC AUDIO	
Power Source		AC100-240V, 50-60Hz	
Power Consumption		60W	
Dimension(WxHxD)		523.7x398.2x178 mm	

Changes are periodically made to this specifications. Current specifications may also be obtained via the internet, www.mag.com.tw